



DEPARTMENT OF DESIGN AND CONSTRUCTION

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DUTIES AND FUNCTIONS

The Department of Design and Construction (DDC) is the central agency responsible for the planning, design, and construction management of the City's Capital Improvement Program (CIP). Working in conjunction with its clients who are the other operating departments in the City, DDC administers the planning, development, and implementation of capital improvements for all City agencies. These include development of infrastructure and facilities for wastewater, roads and drainage, parks, fire, police, emergency services, customer services, finance, and planning and permitting. Additionally, DDC performs land survey and land acquisition in support of all City agencies.

DDC is organized to efficiently deliver the services required to support its customers. Each division is structured to include the planning, design, and construction management services necessary to implement client needs. The five divisions are:

- Civil Division
- Facilities Division
- Land Division
- Mechanical / Electrical Division
- Wastewater Division

The function of the **Civil Division** involves the planning, design, and construction of civil infrastructure facilities including: streets and highways; drainage and flood control systems; bridges and other public works structures; environmental related projects; and the Soil/Materials Testing Laboratory.

The function of the **Facilities Division** involves the planning, design, and construction of facilities including: municipal and civic buildings; parks and park structures; golf courses; Zoo facilities; municipal auditorium facilities; fire stations; police stations; and corporation yards. Additionally, the Division is charged with the overall space planning, moving, and relocation for all City agencies.

The function of the **Land Division** involves providing land and engineering survey, title search, real property appraisal, negotiation, and document preparation services in connection with the acquisition of lands and easements required for City projects and activities. Acquisitions include various roadways, utility and access rights-of-way, sites for wastewater collection and treatment facilities, sites for solid waste collection/disposal/transfer activities, and sites required for such public uses as parks and playgrounds, golf courses, police and fire stations, and corporation and bus yards.

The function of the **Mechanical/Electrical Division** involves the administration, coordination, management, and monitoring of activities relating to the planning, design, and construction of roadway lighting projects; planning, design, and construction of electrical and mechanical upgrades to existing facilities including lighting retrofit and air-conditioning upgrades; planning, design, and management of energy conservation programs; management of underground storage tank inspections and mitigation; and selected design, management, and installation of improvements to support the City communication system infrastructure.

The function of the **Wastewater Division** involves the planning, design, and construction of wastewater related facilities including: design installation and repair of collections systems, and the design and construction of wastewater treatment plants.

Principal clients consist of the City agencies listed below. The Planning Branches of each division work with the client agency to identify and program its long-term needs and create the annual CIP projects. As projects are budgeted, the Design and Construction Branches prepare the construction documentation needed to fulfill the client program requirements, and bid and build the facilities.

- Office of the Mayor
- Office of the Managing Director
- Office of the City Clerk
- Office of the City Council
- Department of Corporation Counsel
- Office of Counsel Services
- Department of Information Technology
- Honolulu Emergency Services Department
- Department of Enterprise Services

- Department of Environmental Services
- Department of Facility Maintenance
- Department of Budget and Fiscal Services
- Department of Human Resources
- Department of the Medical Examiner
- Department of Transportation Services
- Honolulu Fire Department
- Honolulu Police Department
- Liquor Commission
- Department of Customer Services
- Oahu Civil Defense Agency
- Department of Parks and Recreation
- Department of Planning and Permitting
- Department of Prosecuting Attorney
- Royal Hawaiian Band

ACTIVITIES

Special Projects

Special Projects is tasked with the implementation of high-profile CIP projects or CIP projects demanding integrated, multi-disciplinary, and creative approaches to address design issues and budget constraints. As a result, Special Projects may undertake a variety of project types and is not regulated to performing a specific type of project, such as parks, roads, etc.

The Special Projects group consists of one full-time architect, one part-time engineer, one personal services contract engineer, one part-time landscape architect on loan from DPR, and one personal services contract clerk. This is a reduction of one engineer from the previous annual review year. In general, projects are managed from start to completion instead of proceeding from a Planning Branch to a Design Branch and, finally, to a Construction Management Branch.

This past year, Special Projects has been involved in the planning, design, and construction of City facilities such as street improvements, park ball fields, park comfort stations, skateboard facilities, community signs, canoe halau, bike trails, community master plans, facility assessments, and urban design studies. Of note is the use of a design/build approach for the Honolulu Fire Department Headquarters Complex to reduce City cost, liability, and the time it would normally take to implement a major project. The Special Projects' architect served as a speaker and panelist on Design-Build at the LTAP/ACEC/APWA/ASCE/ACEH Workshop in January 2005.

Special Projects completed 23 facility improvement projects; 36 projects are on-going.



Projects Completed

- Aala Park Ewa-End Improvements
- City Beautification Program, Kamehameha Highway (Pali Golf Course to Likelike Highway)
- City Beautification Program, Kamehameha Highway (McCully-Moiliili Area)
- City Beautification Program, Makakilo Beautification
- City Beautification Program, Nuuanu
- Ewa Mahiko Park Comfort Station and Parking Lot, Phase 1
- Ewa Mahiko Park Site Improvements, Phase 2
- Haleiwa Ali'i Beach Park Bathhouse and Site Improvements
- Hawaii Theater Area Improvements

Kahaluu Regional Park Phase 2, Parking Lot, Comfort Station and Miscellaneous Improvements
 Kaneohe District Park Youth Facility
 Keehi Lagoon Canoe Halau
 King Kalakaua Gateway Park Fountain Design-Build Retrofit
 King Street Improvements Phase 2
 Kuhio Avenue Master Plan – Kaiolu Parking Lot
 Kuhio Beach Park Shower Improvements
 Kuhio Beach Torch Modifications
 Millilani Mauka Community Park Comfort Station and Miscellaneous Improvements
 Miscellaneous Signage Improvements – Chinatown Street Signs
 Miscellaneous Signage/Marker Improvements – Pali Highway (Wylie and Waokanaka Streets)
 Miscellaneous Signage/Marker Improvements – Pearl City Gateway
 Waialua Bandstand Community Park
 Waikiki Aquarium Promenade, Phase 2

Projects On-Going

Aiea Town Center Beautification
 City Beautification Program, Kamehameha Highway (Paleka Street to Haiku Road)
 Design-Build of New Entrance for Honolulu Zoo
 Haleiwa Ali'i Beach Park Parking Lot
 Haleiwa Economic Redevelopment Plan
 Honolulu Fire Department Headquarters Complex
 Kahaluu Regional Park Phase 1, Field Improvements
 Kahaluu Regional Park Amphitheater

Kalo Mini Park Site Improvements
 Kamehameha Highway Improvements Phase 1, Waialua Courthouse to Amara Road
 Kapahulu Community Master Plan Improvements
 Kapolei Regional Park Comfort Station and Related Site Improvements
 Kapolei Regional Park Parking and Hula Mound
 King Street Improvements Phase 4
 Kuhio Avenue Landscape Improvements
 Maili Beach Park Site Improvements
 Manana Community Park Comfort Station and Parking Lot, Skate Park, Playcourts
 Millilani Town Center Community Park Comfort Station and Parking Lot
 Miscellaneous Signage/Marker Improvements – Aiea Gateway
 Miscellaneous Signage/Marker Improvements – Whitmore Village
 Pearl Harbor Historic Trail – Signage
 Sunset Beach Recreation Center
 Wahiawa Botanical Garden Pavilion and Site Improvements
 Waihole Beach Park Design-Build of Improvements
 Waihole Beach Park Practice Field
 Waikiki Mauka-Makai Streets
 Waimanalo All Parks Master Plan – Kaiona Beach Park
 Waimanalo All Parks Master Plan – Makapuu Bathhouse
 Waimanalo Green Belt
 Waipahu Depot Road Extension
 Waipahu Waterfront Passive Park

CIVIL DIVISION

The **Planning and Design Branches** completed 23 projects, one planning study project, and 22 design projects totaling \$22 million in construction. Projects going to construction consist of one bridge project, five curb ramp projects, three drainage and stream related projects, one emergency repair project, one guardrail project, six sidewalk related projects, and five resurfacing and reconstruction of roadway projects.

A total of 173 planning and design projects were on-going at the end of the fiscal year. These projects involve bridge rehabilitation, concrete bus lanes, curb ramps, drainage improvements, emergency repairs, flood control, highway structures, planning studies, reconstruction of concrete sidewalk, reconstruction/rehabilitation of roadway, rock slide potential inspections, scour protection of bridges-inspection/monitoring, seismic retrofit of bridges, stream improvements, and storm drainage improvements.

The **Construction Branch** completed a total of 22 construction projects at a cost of \$24,851,963. The completed construction projects include five curb ramp projects, three drainage and stream improvement projects, one emergency project, one incinerator site cleanup project, eight resurfacing/rehabilitation of roadways projects, three sidewalk projects, and one seismic retrofit of bridge project.

At the end of the fiscal year, there were 34 projects in varying stages of completion. The estimated construction amount for the on-going projects is \$68,210,888. The on-going projects involve bridge rehabilitation/replacement, curb ramps, drainage improvements, roadway and infrastructure improvements, bicycle improvements, sidewalks, emergency repairs, and rehabilitation of streets.

The **Soils/Materials Testing Laboratory** conducted 427 material analysis (including soil analysis, proctor, AC content, specific gravity, and gradation), 511 field control tests (including compaction testing, California Bearing Ratios [CBR], piezometer, and coring), 86 site investigations, and 508 concrete compressive strength tests. These tests include those conducted for the DDC as well as for other City departments and the Board of Water Supply.

PICTORIAL HIGHLIGHTS OF CIVIL DIVISION PROJECTS



Left and right photos: Manoa Stream Bank Repairs at Koali Road



Salt Lake Boulevard Phase 2A



Bridge Rehabilitation– Kamehameha Bridge over Anahulu Stream



Emergency repair at Kamiloiki Channel (Left photo: before repair; and right photo: repair completed.)



Curb Ramp constructed at Kalani Street and Waiakamilo Road



Construction of Kapolei Parkway Phase 8A

FACILITIES DIVISION

The **Planning Branch** is responsible for researching and planning the development, expansion, and improvement of City facilities, including municipal and civic buildings, parks and park structures, fire stations, police stations, and corporation yards. The following are examples of the branch's undertakings:

1. Master planning and project management of individual parks development for the Department of Parks and Recreation (DPR) and the development of facilities for other City agencies, as required;
2. Long-range facilities planning for the DPR and other City facilities, as required;
3. Assembling the annual CIP for the Facilities Division;
4. Amending the annual and six-year CIP to assure continuity of park development and meeting municipal facility needs;
5. Planning the acquisition of and helping coordinate the management of all park lands. The same services are provided for lands required by the Facilities Division for development;
6. Managing production and approvals of applications for Development Plan amendments, environmental assessments, Special Management Area permits, and intergovernmental agreements;
7. Maintaining records on park land transactions, deeds, and facility planning documents, such as master plans and maps showing existing conditions of City facilities; and
8. Planning, land acquisition, architectural programming, and project management of civic facilities, such as fire and police stations, corporation yards, and other municipal buildings and facilities.

During the fiscal year 2004-2005, the branch worked on 43 projects. The following are significant planning projects that the Branch worked on:

- Heeia Kea Nature Preserve Master Plan – preparation of the park master plan
- Kapiolani Regional Park Master Plan and Sidewalk Improvements – update of the existing park master plan
- Kapolei Consolidated Corporation Yard – preparation of a master plan for the new corporation yard and other planning work required for permitting
- Koolau Greenbelt and Heritage Trail System – preparation of a general master plan for the proposed trail system
- Laniakea Beach Support Park Master Plan – preparation of the park master plan
- Standards and Design Precepts for Future Park Development (previously titled “Islandwide Parks Master Plan”) – preparation of an island-wide plan for further park development
- Waianae Regional Park Archaeological Inventory/Master Plan – preparation of an archaeological inventory and master plan for the park

Project Management and Design

The **Facilities Division** design function is divided between two branches: Design Branch A and Design Branch B.

Design Branch A implements the Department's CIP for the development of major projects, including major municipal and civic buildings, police stations, fire stations, City corporation yards, and various Enterprise Service facilities. The architectural section of Design Branch A is involved in the upkeep of all City facilities requiring various renovations, alterations, relocations, and emergency repair. The in-house design staff completed over 35 repair projects costing approximately \$1.6 million annually. The following represents projects completed by the branch:

- Wahiawa Corporation Yard Caretaker's Cottage Emergency Re-roofing \$13,197
- Honolulu Police Department Chinatown Substation – Emergency Removal of Arsenic and Lead Base Paint 25,179
- Kapolei Half 3rd Floor, Neighborhood Commission – New Office 24,981
- Honolulu Police Department Emergency Re-roofing of Lanai Decks 345,310
- Central Fire Station – Emergency Roof Reconstruction 7,900

The branch worked on 25 projects with an estimated total construction cost of approximately \$8.2 million during the fiscal year. The following represents projects worked on by the branch:

- Kaneohe Corporation Yard Caretaker's Cottage Re-roofing \$18,755
- Blaisdell Exhibition Hall – Kitchen Plumbing Alterations 150,000
- Manoa Fire Station Re-roofing 183,500
- Ewa Mills Warehouse Renovation, Buildings 22 and 25 2,195,350
- Facilities Maintenance Shop Sewer Connection 224,000

Design Branch B implements the City's CIP, emphasizing projects to provide new park facilities for the City, rehabilitate and upgrade existing park facilities, bringing more of them in compliance with present code standards such as the American with

Disabilities Act requirements, in addition to Zoo and golf course projects. The branch worked on 45 projects with an estimated total construction cost of approximately \$20 million during the fiscal year. The following represents projects worked on by the branch:

- Aiea District Park ADA Improvements, Phase 2 \$754,280
- Hans L'Orange Neighborhood Park Ballfield Improvements and Parking Lot 1,087,600
- Kailua District Park – Repair Gymnasium Roof 1,883,000
- McCully District Park Gym and Pool Structure Improvements 1,179,220
- Palailai Neighborhood Park – Construction of Comfort Station 551,000

The **Construction Management Branch** manages and inspects both park and building CIP projects. Thirteen building construction and improvement projects were completed in FY2005 for a total cost of \$5,270,000. Fourteen Parks and Recreation construction and improvement projects were completed for a total cost of \$4,550,000.

There are currently 66 building and parks construction and improvement projects still under construction for a total cost of \$52,100,000. Examples of major projects include:

- Central Oahu Regional Park Aquatics Center and Tennis Complex (2) \$12,551,000
- Collection System Maintenance Baseyard (Halawa) 5,131,023
- Foster Botanical Garden New Orchid Conservatory, Community Gardens, and Maintenance Building 1,833,227
- Honolulu Zoo – Veterinary Clinic 2,879,000
- Honolulu Zoo Animal Encounter Discovery Center 4,195,000
- Honolulu Zoo Asian Tropical Forest, Phase 1B - Elephant Exhibit and Related Improvements 6,123,639
- Kapolei Ambulance Unit Facility 996,500
- Kewalo Corp Yard Relocation Phase IIIA 1,782,859
- Makaha Beach Park Canoe Halau 705,000
- Pokai Bay Canoe Halau 345,000
- Police Training Academy Indoor Firing Range 5,483,732
- Wailupe Valley Neighborhood Park – Construction of Pedestrian Bridge and Walkways 405,658



Central Oahu Regional Park Aquatics and Tennis Complex

Mayor and students of Wailupe Valley Elementary School at dedication of pedestrian bridge between the school and Wailupe Valley Neighborhood Park



LAND DIVISION

The division is organized into three functional units: the Acquisition Branch, the Survey Branch, and the Appraisal Branch. The **Acquisition Branch** conducts title searches, negotiates with property owners to acquire lands and easements for City projects, prepares conveyance documents, and processes such documents for City Council acceptance and recordation at the State Bureau of Conveyances. The branch also prepares documents for Land Court.

The **Survey Branch** conducts land/control/topographic field surveys, makes land boundary studies, and stakes property boundaries. The branch reviews consultants' work, prepares maps and descriptions, makes shoreline certifications, prepares subdivision and land court maps, and prepares maps/charts/graphs for use in court.

The **Appraisal Branch** prepares real estate cost estimates and appraisals for the acquisition or use of real property needed for City projects. The branch also prepares appraisals for the rental and disposal of City properties, and determines valuations for park dedications purposes. It assists the Corporation Counsel in preparing for condemnation trials and provides expert witness testimony on property valuation in court.

Besides servicing the needs of the DDC, the Land Division also services the City Departments of Community Services, Transportation Services, Environmental Services, Parks and Recreation, and Facility Maintenance. The division also assists the Departments of the Corporation Counsel, Police, and Prosecuting Attorney by conducting title searches, performing site surveys and stakeouts, and preparing maps and charts for court cases. The Department of Budget and Fiscal Services receives assistance in the preparation of maps, descriptions, searches, and appraisals for the rental, leasing, and disposal of City properties.

Following are samples of projects from various City agencies that the Land Division provides services for:

I. Listing of Department of Design and Construction Assignments

- Aiea Heights Sidewalk Improvement
- Akaakaawa (1754) Street – Stakeout
- Ala Moana WWPS Force Main Modification
- Alahiki (820) Street, Kailua – Stakeout
- Banzai Rock Beach Support Park – Relocation
- Bridge Replacement at Various Locations – La'i Road Bridges
- Camp Catlin Road and Arizona Road Navy License Agreement
- Curb Ramps at Various Locations
- East Honolulu Police Station
- Emergency Low Pressure Sewer Siphon Pumping Plants at Various Locations
- Ewa Villages – Varona and Area E
- Ewa Villages – Extension of Kapolei Parkway Phase 8A
- Fire Department Headquarters Property Purchase
- Fort Weaver Road Reconstructed Sewer
- Haiku Stairs – Survey Map
- Hakimo Road Drainage Improvements
- Halawa Land Beneath and Adjacent to H-3
- Hans L'Orange Park – Consolidation
- Hauula Fire Station Relocation
- Ka Iwi Scenic Shoreline – Sale
- Kailua Road Underground Utility Easements
- Kailua Road Sewers Improvement District No. 276
- Kainehe Street, Hamakua Drive, and Keolu Drive Reconstructed Sewers
- Kalakaua District Park – Topo Entire Park
- Kalihi-Uka Sewers, Section 5, Improvement District No. 213
- Kalo Place Mini Park Acquisition
- Kamanaiki Street – Right of Entry and Survey
- Kawa Ditch Improvements
- Kawainui Gateway Park – Map
- Kawainui Marsh Transfer to State
- Keehi Corporation Yard – Survey Readings

Koko Crater Access Road – Acquisition
Laenani Drive – Guardrail Improvements
Laie Sewers, Section 1 Improvement District No. 277
Manana Infrastructure Improvements, Spine Road
Moanalua Loop Encroachment and Rock Slides
Nimitz Highway Sewer Reconstruction at OCCC
Proposed Sunset Beach Recreation Center
Rehabilitation of Streets
Salt Lake Boulevard Widening
Wanaao Road/Keolu Drive Reconstructed Sewers
Wheelchair Ramps at Various Locations – Koko Marina

II. Assignments for Other Agencies

A. Board of Water Supply

Lilipuna Street Beach Access – Appraisal

B. Department of Budget and Fiscal Services

Aalapapa (1459) Drive – Sale

Auahi and Queen Streets – Rental Roadway Stub

Auahi and Queen Streets Rental – Survey

Auahi Street (portion) Rent/Disposal of City Property

Auhuhu Street Request for Perpetual Grant of Easement

Bachelot Street – Survey

Block J Disposal

Century Center Condo – Purchase of Leased Fee Interest

Coral Street – Title Search

Coyne and Bingham Streets Utility Alleyway – Consolidation

Elm Street – Abandonment and Disposal

Ewa Villages Common Area – Map

Forest Ridge (221) Way Encroachment Agreement

Halona Road – Disposal

Kamakee Street Land Exchange

Kamalii Park – Title Search and Map

Kamehameha Highway and Laumaka Street Disposal

Kuhio Avenue Mini Park – Title Search

Kuhio Avenue Mini Park – Survey

Lilipuna Right of Way – Appraisal

Mililani Street Communication Easement – Legal Description

Pali Golf Course HECO Easement – Sale Price

Pearl City Corporation Yard Exchange

Piikoi Street Mini Park – Appraisal

Queen's Court and Harbor Court

Waipahu Cultural Gardens Park – Survey/Map

West Loch Golf Course Remnant – Survey

C. City Council

Ahuimanu Road – Condemnation Plans

Kolea and Moaniani Streets – Bird of Paradise Ownership

Lohilani Street Ownership

Lower (3274C) Road – Wall Ownership

Manoa Road – Ownership
Waiomao (2373) Road – Wall Ownership

D. Department of Community Services

Ala Nui Mauka (91-1176) Street – Appraisal (Sale)
Ewa Villages Area A (Lokahi Gardens) – Appraisal
Ewa Villages, Hapua (91-1132) Street – Stakeout
Ewa Villages – Lot 3178-B-2
Kaiolu (448) Street – Appraisal Review
Kekaulike Diamond Head Block – Map
Kihei Place – Ownership
Laula Way – Appraisal Review
Ota Camp – Perimeter Survey
Queen's Court – Appraisal Review

E. Corporation Counsel

Civil 04-1-1880-10 KSSA Filimoehala et al. v. City
Civil 05-1-0946-05 Ellen Osborne et al. v. H. Rahim
Civil 05-1-0343-03 (BIA) State v. Koolau Land Partners
Civil 05-1-0352-03 J. Ogawa v. Heirs of Auror Barros
Civil 05-1-0552-04 Miyake v. City
Convention Center Gateway – Condemnation
Claim of Akanesi Filimoehala Against City
Harbor Court
Hart Street
Kaamooloa (66-341) Road Encroachment
LCA 323 Amended Petition
LCA 1069 Amended and Restated Petition for Subdivision
Pacific Heights (3204) Road – Topo, Title Report, Easements
Portlock Road Beach Access
Waimea Bypass Road

F. Department of Environmental Services

Ala Moana Sewage Pump Station and Force Main Modification
Hart Street New WWPS
Honouliuli WWTP Effluent Reuse, Phases 1, 2 and 3
Honouliuli WWTP Air Dispersion Modeling Project
Huna Street Sewers
Kahaluu Housing WWTP
Kailua Regional WWTP
Kalaheo Landfill – Topo
Kamehameha Highway Force Main Replacement
Kaneohe Bay Sewers Improvement District No. 275
Kaneohe Sewers, Section 9, Improvement District No. 270
Landfill Candidate Sites – Consents to Enter
Nimitz Highway Sewer Libby/Hart WWPS – Sewer Easement Acquisition
Salt Lake – Maintenance for Dredging Phase II
Salt Lake Waterways – Survey As-Built Cross Sections
Sand Island Treatment Plant Center Lease (Hawaii Alcoholism Foundation)

Sand Island WWTP General Lease No. S-4341

Waianae Landfill Fencing – Stakeout

G. Department of Facility Maintenance

Aiea Heights Aiea Lani Estates – Survey

Ala Aolani (1677) Street – Chain Link Fence Repairs

Barbers Point – Renton Road/Roosevelt Connection

Ewa Villages Site Survey Parcel 74

Lanikai Beach Access Between 1326 and 1336 Mokulua Drive

Manoa Flooding – Ownership

Round Top (2845) Drive – Acquisition

Wainhi Street Erosion – Topo

West Loch Draft Box Culvert

West Loch Elderly Village – Topo

H. Mayor's Office

Ala Moana Boulevard (Kalia to Kalakaua) and Kalia Road (portion)

Banyan Tree Walkway Improvements

Hui Kelu (45-578) Stream Ownership

Olopana Street Transfer to State – Supplement #17

River (1343) Street – Determine Jurisdiction

Round Top (2255) Drive – Monkey Pod Trees Ownership

I. Department of Parks and Recreation

Central Oahu Regional Park (aka Waiola Sports Complex)

Ka Iwi Park (Kealahou/Kokohead Golf Course Subdivision 5 and 6)

Kahala Avenue Between Black Point and Kealaolu – Coconut Palms Ownership

Kaimoani Way R-O-W at Kailua Bay Beach Park

Kaneohe Bay Property – Cancel Executive Order 3410

Kawailoa Beach Park Addition – Parcels 1, 2, 3, 5 and 6-A

Lanikai Community Park – Tree Ownership

Laumilo Street Ironwood Trees – Topo

Nohona and Wainohia Streets – Flowage Easements 630 and 631

Park Sites – Current Appraisals for Market Rental Value

Tantalus (2726-2756) Drive – 6 Monkeypod Trees Ownership Survey

J. Department of Planning and Permitting

84-1005 Lahaina Street – Valuation

Ahuimanu (47-701) Road – Appraisal

Dole Street Extension Fl#87 University Avenue to Kanewai Street

Kamehameha (66-031) Highway – Site Survey Map

Kanoelani Road – Title Search

Kapolei Rezoning Project

Kukanono WWPS and Force Main

Park Dedication – 1002 Green Street, Makiki

Park Dedication – 1296 Aulepe Street, Kailua

Park Dedication – 1419 Piikoi Street, Makiki

Park Dedication – 1602 Lusitana Street, Punchbowl

Park Dedication – 1629 Lusitana Street, Punchbowl

Status of Lots, TMK: 4-3-10-17, 18, 19

Status of Lots, TMK: 3-2-27-19

West Loch Zone Change Application

K. Department of Transportation Services

Bus Bay for Bus Rapid Transit (500 Ala Moana Boulevard)
Bus Shelters at Various Locations in Kapolei
Halawa Bus Facility (Former) Disposition
Haloa Drive-Ala Oli Street Intersection Roundabout
Honolulu Bicycle Master Plan Improvements
Kapaa Quarry Road – Topo
King Street (North) Widening Improvements, Mokauea to Kalihi
Lualualei Homestead Road Improvement
Middle Street Transit Center
Pearl Harbor Bikepath Extension II
Renton Road – Bridge To Kihi Street
Traffic Calming at Various Locations
Traffic Signals at Various Locations
Waianae Coast Emergency Access Road
Waimano Home Road/Moanalua Road/Kuala Street Intersection Improvements

L. Honolulu Police Department

Orange (84-168) Street – Survey

III. State of Hawaii

Aiea Heights Drive – Sewer Easement Grant
Ahuimanu – Grant of Drain Easement
Ewa Beach Sewers, Section 2 Improvement District No. 255
Ewa Elementary School – Legal Description and Map
Ewa Marina Dredging
Haiku Stairs
Interstate Route H-3 Halawa Interchange to Koolau Range
Kaimakani Street Widening
Kakaako – HCDA Roads – Dedication
King Street North/Iwilei Road Elderly Housing
Koko Head Road and Pahoa Avenue Widening
Lualualei, Maili, Uluhewa Beach Parks
Mahalani Circle – Encroachments
Pali Highway, FAP, Beretania to Vineyard — Ps. 1 to 22
Pele Street Mini Park
Pohakea Elementary School Curb Ramp Adjustment Plan
Queen Emma Square Park
Waianae Corporation Yard – License Agreement
Waianae Multi-Service Center
Waipio Point Access Road

IV. Dedication by Private Sector

A & B Industrial Subdivision Phase IB
Aiea Industrial Park Subdivision
Ewa by Gentry Area 27B Phase III
Ewa by Gentry Area 27B Phase IV
Highpointe at Makakilo – Cable Easement
Iwilei Road Widening – Ordinance 2412
Kalaimoku Street Rounding Corners at Kalakaua and Kuhio
Kaunala Beach Lots Subdivision

Kekuilani 4 Subdivision
 King Street (North) – Ordinance 2412 Lot A-2
 Lanikea at Waikiki
 LDS Wahiawa Chapel Flowage Easements
 Lenakona Industrial Subdivision
 Mililani Technology Park Phase 1-C
 Royal Kunia
 Sun Terra Phases E to K
 Village Park Phase 16
 Villages of Kapolei
 Waialae Iki V Phases 2B and 2C
 Waianae Agricultural Park Subdivision
 Waiale 9C Subdivision
 Waiale Area 10-A (Highland View Estates)
 West Beach 2
 Westcliff Subdivision
 Wikao Street/Waikalani Drive

V. Miscellaneous

Cancellation of Easements – Komo Mai Drive
 Cancellation of Gravity Sewer Outfall
 Hinapu (46-110) Street Easements
 Kahaluu Hui Koolau SPS
 Kailua Park (Windward Regional) Luana Hills Golf Course
 Kalani Street Between Mokauea and Kalihi – Ownership
 Kalawahine (2107) Place – Grant of Sewer Easement
 Manana Infrastructure Improvements (WalMart)
 Mililani Mauka Offsite RandU 14A – Request to Cancel Easements
 Puowaina (1848) Drive – Rock Wall Ownership
 Pupukea Paumalu Homestead Road – Ownership
 Waipio Point Subdivision – Request to Cancel Sewer Easement

LAND SERVICES SUMMARY OF ACCOMPLISHMENTS

Parcel and Land Court Maps	145
Maps Reviewed	35
Number of Parcels	195
Descriptions	475
Reviewed/Stamped	260
Title Searches Checked	265
Topographic Maps	135
Field Surveys	285
Appraisals by Staff	239
Fee Parcels	67
Easement and Rentals	74
Parcels Reviewed	31
Park Dedications	67

Title Searches	458
Regular System	
New	201
Update	46
Land Court	
New	167
Update	44
Research Assignments	4,755
Abstract Section	281
Document Section	3,975
Negotiations Section	29
Survey Section	470
Negotiations	956
Parcels Acquired	155
Condemnation	10
Negotiations	43
Dedications	102
Request for Eminent Domain Proceedings	15
Documents	91
Acquisition Documents Processed	40
Dedication Documents Recorded	51
Correspondence and Misc. Reports	4,500

MECHANICAL/ELECTRICAL DIVISION (MED)

The **Communications Branch** was transferred to the Department of Information Technology (DIT), effective July 1, 2004. MED served as consultant for DIT and will continue managing a number of projects related to communications.

- Worked with DIT on the transition of the telecommunications function from DDC to DIT;
- Managed the design to upgrade the communication center located at the Honolulu Police Headquarters. The work included the upgrade and rearrangement of the existing dispatch center furniture, upgrade of the existing overhead lighting, and upgrade of the room's normal and backup electrical power;
- Managed the installation and acceptance test of the Bi-Directional Amplifier Systems for the Kapolei Police Station and the Honolulu Municipal Building to provide in-building coverage for radios operating on the City 800 MHz radio system and for private cellular providers;
- Managed the design to relocate the existing radio and microwave equipment from the existing City-owned equipment facility/towers to the proposed State constructed equipment facility/tower; and
- Managed the Propagation Studies/Antenna Changes telecommunications project to support the improvement of coverage on the City 800 MHz radio system.

The **Energy Conservation and Indoor Electrical Branch** provides for coordination, planning, design, and implementation of programs, including:

- Participating in energy conservation programs sponsored by utility companies and State agencies;
- Developing long-range planning of energy conservation projects for general government office buildings;
- Working with other City agencies, such as the Department of Enterprise Services, in planning energy conservation improvements in their facilities;
- Reviewing mechanical and electrical proposals, designs, plans, and specifications prepared by private consultants for improvement projects at various City facilities for compliance with State, City, and safety standards and codes, engineering practices, and energy conservation;
- Managing, coordinating, and designing mechanical and electrical improvement projects in the areas of plumbing, air conditioning, underground fuel storage tanks, energy conservation, indoor electrical, lighting, and public address systems;
- Maintaining inventory of the City underground fuel storage tanks and managing on-going mitigation and groundwater monitoring projects; and
- Investigating complaints of indoor air quality and hazardous materials at various City facilities.

List of Accomplishments

- Continued participation in the Hawaiian Electric Company (HECO) Energy Efficiency Program. In FY04, the City received \$13,713.00 in electricity rebates for various projects. The City has received \$459,409.00 in rebates since the inception of this program.
- Continued participation in the U. S. Department of Energy Rebuild America/Rebuild Hawaii Program, including participation at quarterly meetings and workshops. Workshops attended include: the HECO 6th Biennial 2004 Efficient Electro-Technology Exposition and Conference in Waikiki and the HECO's Sustainable Design Tool Series on Photovoltaics for Buildings and Integrating High Performance: Improving the Way Buildings are Designed, Built & Used. The 2004 Expo and Conference featured over 40 workshops aimed at meeting current and future energy challenges and over 60 tradeshow exhibitors displaying new technologies, instrumentation, and energy conservation devices. The workshop on photovoltaics for buildings featured unique designs that integrate electricity generating solar panels in building structures. The integrating high performance workshop highlighted digital control systems for air conditioning and lighting systems in buildings. The knowledge gained from the workshops will help the branch in implementing energy conservation projects for the City. Workshops were funded through a grant from the State Department of Business, Economic Development and Tourism (DBEDT).
- Received co-Project of the Year Award at the HECO's 6th Biennial 2004 Efficient Electro-Technology Exposition and Conference in October 2004 for the Honolulu Hale Energy project.
- Provided design assistance for:
 - ◊ Air conditioning system modifications for the Mayor's Office at Kapolei Hale.
 - ◊ Ventilation hood replacement at Pearl City and Waianae Fire Stations.
 - ◊ Troubleshooting NBC Concert Hall air conditioning system malfunctions.
 - ◊ Installation of dehumidifier for Corporation Counsel's Law Library and other indoor air quality issues.

Projects Completed

- Replacements of Lamps & Ballasts at Various City Facilities, Phase III – lighting retrofit of nine fire stations, five police stations, and the Honolulu Municipal Building's stairwells
- Ewa Villages Golf Course – Off-Peak Charging of Golf Carts – replacement of the existing golf cart charging panels with programmable panels to take advantage of reduced electricity costs during off-peak hours
- Air Conditioning System Improvements at Kaneohe Police Station – replacement of the chilled water piping and ductwork to address indoor air quality issues
- Ventilation System Improvements at Medical Examiner's Office – replacement of roof top ventilation equipment to address indoor air quality issues
- Ala Wai Golf Course Clubhouse – Air-Cooled Chiller Replacement – replacement of a 90-ton air-cooled chiller that provides cooling for community functions
- NBC Exhibition Hall Lighting Improvements — replacement of 134 light fixtures in the Exhibition Hall with more energy efficient fixtures to provide better illumination and to reduce electricity costs
- HPD Training Academy Air-Cooled Chiller Replacement – emergency replacement of the air-cooled chiller that provides cooling for the administration building at the Police Training Academy

New ventilation system for the Medical Examiner's Office



New 90-ton air cooled chiller at the Ala Wai Golf Course Clubhouse

Projects On-Going

- Kapolei Hale Air Conditioning System Upgrades – installation of a new energy management system to control the air conditioning system for energy savings and better employee comfort. This project also involves the modifications to the cooling towers and chiller plant for more energy efficiency.
- Energy Services Performance Contracting for Honolulu Municipal Building and Honolulu Police Department Headquarters – replacement of the central air conditioning plant in the Honolulu Municipal Building and the modernization of the air conditioning system in the Police Department Headquarters. This project will save approximately \$500,000 annually in operating costs.
- Neal Blaisdell Center Arena Air Conditioning System Upgrades – replacement of 16 obsolete air conditioning units around the arena with a modern central chiller plant
- Hale Pauahi Municipal Parking Structure Lighting Improvements – replacement of obsolete fluorescent fixtures with new energy efficient fixtures to reduce energy consumption and to provide a better sense of security in the parking structure
- HPD Computer Room Air Conditioning System Improvement – replacement of an obsolete air conditioning unit with a more energy efficient unit and the installation of a back-up unit for system reliability
- Pali Golf Course Maintenance Facility Fuel Storage Tank Replacement – replacement of the above ground diesel and gasoline storage tanks that provide fuel to the maintenance vehicles at Pali Golf Course
- Honolulu Municipal Building – Installation of Fire Sprinkler System – installation of a fire sprinkler system and the upgrade of the fire protection systems in HMB
- Police Department Headquarters Vehicle Wash Facility – NPDES Improvements – replacement of the automatic car wash system and other facility improvements to meet NPDES requirements
- Other projects – Environmental Services at Various City Facilities and Environmental Clean-up & Monitoring of Various Underground Storage Tank sites

The **Street Lighting and Facilities Electrical Branch** provides for planning and design of roadway and public facilities lighting and for design and review of parks electrical facilities (indoor and outdoor lighting and electrical systems), including:

- Participating in the planning and development of capital improvement street lighting projects with other City agencies and input from the general public;
- Reviewing street lighting proposals and design plans and specifications prepared by private consultants for compliance with City requirements;
- Reviewing parks electrical proposals, design plans and specifications prepared by private consultants for compliance with City requirements (1,193 street lighting and parks electrical work in FY05);
- Investigating public complaints relating to the City street lighting systems (402 in FY05);
- Establishing standards for roadway lighting on City streets;
- Reviewing excavation/trenching permits for conflicts with City-owned underground street lighting and fiber optic systems (551 in FY05);
- Performing construction inspection of street lighting systems installed new or modified by private developers for subdivisions and other private developments (216 in FY05);
- Performing construction management and inspection of City street lighting projects and City parks electrical projects (1,870 in FY05); and
- Managing the joint pole coordination for the City with the Hawaiian Electric Company (808 in FY05).

Design Projects Completed

- | | |
|--|------------|
| • Chinatown Street Lighting Replacement/Improvements | \$-810,000 |
| • West Loch Fairways Street Lighting Improvements, Phase II | 100,000 |
| • Utilities Relocation, Undergrounding Overhead Utilities – Kailua and Salt Lake | 225,000 |
| • Utilities Relocation, Undergrounding Overhead Utilities – Kaneohe/Kahaluu | 50,000 |
| • Utilities Relocation, Undergrounding Overhead Utilities – Alewa Nuuanu | 625,000 |

Design Projects On-Going

- | | |
|--|----------|
| • Anti-Crime Street Lighting Improvements – Hawaii Kai | \$80,000 |
| • Anti-Crime Street Lighting Improvements – Lunalilo Home Road | 59,000 |

• Anti-Crime Street Lighting Improvements – Waimanalo	49,847
• Replacement of Street Lights – Mililani	60,000
• Waialua Beach Road Street Lighting Improvements	120,000
• Waialeale Community Park – Parking Lot and Swimming Pool Lighting	57,459
• Farrington Highway Street Lighting Improvements	50,000
• West Loch Estates Replacement of Walkway Lights	250,000

Construction Projects Completed

• Koko Head District Park – Softball Field Lighting System	\$ 512,000
• West Loch Fairways Street Lighting Improvements, Phase I	1,053,750
• Anti-Crime Street Lighting Improvements – Chinatown II	670,000
• Anti-Crime Street Light Improvements/Utilities Relocation - Kailua Road	2,013,115
• Anti-Crime Street Lighting – Waipahu	89,976
• Waikiki Shell – Replacement of Dimmer System	100,000



New street lights on Maunakea Street in Chinatown



Koko Head District Park Softball Field Lighting System



Kailua Road before and after Anti-Crime Street Light Improvements/Utilities Relocation project



- Kapolei Hale – Computer Room UPS 150,000
- Ahuimanu Community Park – Reconstruction of Playcourts and Installation of Playcourt Lighting System 372,000

Construction Projects On-Going

- West Loch Estates Replacement of Walkway Lights 350,000
- West Loch Fairways Street Lights, Phase II 1,393,000
- Chinatown Street Lighting Replacement/Improvements Phase 2 810,000
- Anti-Crime Street Lighting Improvements – Kalakaua Part 2 (Ala Moana - Kapahulu Avenue) 2,631,895
- Anti-Crime Street Lighting Improvements – Waikiki (Part III – Avenue Mauka Side from Ala Wai Boulevard to Pau Street) 461,785
- Diamond Head Road Master Plan Improvements 1,119,106

WASTEWATER DIVISION

The **Planning Branch** was involved in activities and projects that included: long-range facilities planning, Environmental Impact Statements and Environmental Assessments preparation and review, Planning Assessment Reports, preliminary engineering reports, environmental clearances, land acquisition requests, Special Management Area Permits preparation, Intergovernmental Agreements, City Council resolutions, and new systems development.

The long-range sewer rehabilitation plan completed in 1999 was approved by the United States Environmental Protection Agency in March 2000. This project, which began in 1993, was one of the largest planning projects undertaken by the City. The final plan sets the direction that Honolulu will be taking over the next 20 years to improve the sewer system to meet the City's goals for environmental improvement. Over 165 projects were identified which need to start between 2000 and 2019. Approximately 34% of the projects have been started.

The Branch also provided planning support to the Facilities Division over the past year, primarily with parks-related projects.

The active planning projects for calendar year 2005 are listed below by wastewater treatment plant tributary area:

East Mamala Bay

- Airport Sewer Rehabilitation/Reconstruction
- Ala Moana Boulevard/Auahi Street Sewer Rehabilitation
- Ala Moana Boulevard Sewer Reconstruction
- Ala Moana Wastewater Pump Station Force Main No. 3
- Ala Moana Wastewater Pump Station Force Main Replacement
- Ala Wai Trunk Relief/Reconstruction
- Aliamanu No 1 & 2 Wastewater Pump Station Upgrade
- Beachwalk Force Main Replacement
- Beachwalk (New) Wastewater Pump Station
- Halona Street Relief Sewer
- Houghtailing Street Area Sewer
- Kahala Avenue Sewer Structural Rehabilitation
- Kahanu Street, School Street and Umi Street Relief Sewers
- Kalanianaʻole Highway Sewer Relief/Rehabilitation
- Kalihi/Nuuanu Area Sewer Rehabilitation
- Kalihi Valley Reconstructed Sewer
- Moiliili-Kapahulu Sewer Rehabilitation/Reconstruction
- Nimitz Highway at Libby Street Sewer Rehabilitation
- Waikiki Sewer Rehabilitation/Reconstruction

West Mamala Bay

- Foster Village Sewer Rehabilitation/Reconstruction
- Hanawai Circle Sewer Rehabilitation
- Honouliuli WWTP Upgrade
- Leeward Area Sewer and Manhole Rehabilitation
- Mililani Reclamation Facility
- Renton Road Sewer and Manhole Rehabilitation
- Waipahu Sewer Replacement/Relief
- West Mamala Bay Facilities Plan

Kailua/Kaneohe/Kahaluu

- Alii Shores Wastewater Pump Station Upgrade
- Alii Shores Sewer Rehabilitation
- Kailua/Kaneohe Sewer Manhole and Pipe Structural Rehabilitation
- Kailua/Kaneohe Sewer Rehabilitation
- Kalaheo Avenue/Mokapu Road/Aikahi Loop Sewer Rehabilitation
- Kamehameha Highway Sewers, Improvement District
- Kaneohe Bay Drive Trunk Sewer Reconstruction
- Kaneohe/Kailua Force Main No. 2
- Waikapoki Wastewater Pump Station Upgrade

Waianae

- Makaha Interceptor Sewer Rehabilitation/Reconstruction

Wahiawa

- Central Oahu Facilities Plan
- Wahiawa Wastewater Treatment Plant Influent Pump Station
- Wahiawa Wastewater Treatment Plant Modification

Waimanalo

- Waimanalo Sewer Rehabilitation

Island-Wide

- Sewer Manhole and Pipe Rehabilitation – Various Locations
- Sewer Relief Projects – Kahanahou Circle and Amelia Street
- Small Mainline Projects
- Small Sewer Pipe Diameter Rehabilitation Program
- Wastewater Information Management System – Sewer Flow Analysis System Development

Other Projects

- Department of Environmental Services Support on EPA NOVs
- Reconstruct Park Wastewater Systems, RD1

The **Design Branch** completed 12 major design projects. Bids totaling \$68,184,166 were received. A total of \$74,769,115 was encumbered in fiscal year 2005 with \$6,584,949 in construction contingency. Forty (40) major projects are still under design.

Associated with wastewater facility planning and design, the Design Branch was involved in the review of Facility Plans, Master Plans, Design Standards, and Preliminary Engineering Reports, the preparation of Operations and Maintenance (O&M) Manuals, the training of O&M personnel, the oversight of facility start-up and optimization, and the certification of facility performance.

Associated with the construction of each project, the Design Branch was involved in the review of submittals, requests for information, equipment and materials substitutions, and equipment manuals. The Design Branch participated in regular project meetings, resolution of field conflicts and changes, and resolution of claims and disputes.

Associated with the support of wastewater functions and facilities, the Design Branch was involved in the evaluation, troubleshooting, emergency procurement, and repair of the collection system, pump stations, force mains, and treatment plants, and the review of reports, designs and submittals from private developers and other governmental agencies.

Wastewater Design Projects to Bid

PROJECT	BID PRICE	CONTINGENCY	TOTAL
Aeloa St. Emergency Manhole Repair	\$13,606	\$0	\$13,606
Aumoe St. Sewer Line Replacement (SMPR 19)	586,387	58,639	645,026
Fort Weaver Road Reconstructed Sewer	Under Negotiation		
Honouliuli WWTP – New Solids Handling Facility	31,317,875	3,131,787	34,449,662
Kahuanani St. Sewer Replacement/Rehabilitation (SMPR 85)	1,731,198	166,836	1,898,034
Kalaheo Avenue Reconstructed Sewer – Phase 1 (Emergency Work)	27,977,447	2,797,745	30,775,192
Kamehameha Highway FM – Replace Concrete Cylinder Pipe	915,706	91,570	1,007,276
Kaneohe Bay South WWPS #5, Emergency UST Testing	12,500	12,500
Nimitz Highway Reconstructed Sewer at OCCC	2,090,943	209,094	2,300,037
Rehabilitation of Sewer Lines on Oahu, Contract No. 001	1,308,055	1,308,055
Sand Island WWTP, Gravity Thickener Modifications	608,843	60,884	669,727
Waipahu Street/Plantation Villages Sewer Reconstruction	1,621,606	68,394	1,690,000
Total	<u>\$68,184,166</u>	<u>\$6,584,949</u>	<u>\$74,769,115</u>

Wastewater Projects Under Design

• Ala Moana and Kapiolani Trunk Sewer Replacement/Rehabilitation (Phase 1)	\$15,000,000
• Ala Moana Force Main Repair – Junction Box	100,000
• Ala Moana WWPS FM No. 1 Rehabilitation	100,000
• Ala Wai Trunk Sewer Relief	6,000,000
• Beachwalk (New) Wastewater Pump Station FM	30,000,000
• Enchanted Lake Wastewater Pump Station Upgrade	230,000
• Fort DeRussy WWPS Modification and Force Main Extension	3,000,000
• Fort Street Mall/Hotel Street Sewer Rehabilitation and Replacement (SMPR No. 60)	1,150,000
• Fort Weaver Road Manhole and Pipe Rehabilitation	2,500,000
• Hart Street Force Main Repair	1,000,000
• Honouliuli Wastewater Treatment Plant Solids Handling Facilities	40,000,000
• Honouliuli WWTP, Automation	5,000,000
• Honouliuli WWTP, Modify Primary Clarifier Catwalks and Covers	410,000
• Ilimalia Loop/Mokapu Boulevard Reconstructed Sewer	5,520,000
• Ka Hanahou Circle Sewer Rehabilitation	1,500,000
• Ka Hanahou Wastewater Pump Station Force Main Reconstruction	500,000
• Kailua Road Sewers, I.D.	800,000
• Kailua RWWTP, Primary Clarifier Dewatering System	500,000
• Kailua RWWTP, Replace Primary Sludge Pumps and Force Main	1,300,000
• Kalaheo Avenue Reconstructed Sewer – Phase 1 (Emergency Repair)	20,400,000
• Kam Highway WWPS Force Main, Replace Concrete Cylinder Pipe	900,000
• Kaneohe Bay WWPS No.1 – Refurbish WWPS	2,000,000
• Kapiolani Area Revised Sewer System	5,600,000
• Kulioouou Sewer Rehab & WWPS Modification	6,552,000
• Laukoa Pl. Sewer Replacement/Rehabilitation (SMPR No. 77)	950,000
• Nimitz Highway Sewer Reconstruction at OCCC	1,600,000
• Niu Valley WWPS FM Replacement	798,000
• Pacific Palisades WWPS – Repair Access Road (pre-design)	300,000

• Peterson Lane (SMPR No. 92) and Pua Lane (SMPR No. 93) Sewer Rehab	2,495,000
• Rehabilitation of Sewer Lines on Oahu, Contract No. 002	3,000,000
• Sand Island Basin Miscellaneous Sewer Rehabilitation	2,600,000
• Sand Island Miscellaneous Sewer Rehabilitation	2,600,000
• Sand Island WWTP – Replace Air Conditioning System for Control Building	1,300,000
• Sand Island WWTP Expansion – Soil Management	7,000,000
• Sand Island, Primary Expansion, Phase I Expansion, Final Design	60,000,000
• Sand Island WWTP Expansion, Primary Treatment – Phase 2	90,000,000
• St. Louis Heights Sewer Rehabilitation	20,000,000
• Waimalu Sewer Rehabilitation – 7D01C	15,340,000
• Waimanalo WWTP, Replace Sludge Holding Tank Covers	200,000
• Wanaao Road/Keolu Drive Reconstructed Sewer	25,000,000
Total	<u>\$433,245,000</u>



Installation of 30-inch sewer line on Keolu Drive



During the fiscal year, the **Construction Management Branch** completed eight projects. The total of the final costs for these projects was \$3,649,287.62. Thirty-eight projects with a total contract value of \$351,313,521.76 were still under construction as of June 30, 2005.

Wastewater Construction Projects Completed

• Aeloa Street Emergency Manhole Repair	\$13,606.52
• Kailua Wastewater Treatment Plant Influent Bar Screen Enclosure	349,331.21
• Kalihi Valley Sewer Line Spot Repair	19,981.00
• Kapiolani Boulevard Sewer Siphon Reconstruction at Manoa/Palolo Stream	740,089.00
• Rehabilitation of Sewer Lines Near HECO Honolulu Power Plant	269,048.11
• Republican Street Emergency Sewer Line Replacement	256,930.00
• Sand Island Wastewater Treatment Plant Interim Chemical Treatment Facility	1,514,016.78
• Sand Island Wastewater Treatment Plant Refurbish Gravity Thickener No. 1	486,285.00
Total:	<u>\$3,649,287.62</u>

Wastewater Construction Project Contracts On-Going

• Ahuimanu Wastewater PTF Headworks Modification	\$658,362.00
• Ala Moana Wastewater Pump Station Force Main Emergency Repair	1,885,000.00
• Ala Moana Wastewater Pump Station Modifications	18,144,000.00
• Aumoe Street Sewer Line Replacement (SMPR No. 19)	586,387.00
• Fort Weaver Road/Hapalua Street Sewer Repair	70,456.90
• Fuel System Modification at Honouliuli WWTP, Waianae WWTP, Laenani WWPS	151,950.00
• Halekoa Drive & Palipaa Place Sewer Line Rehabilitation	231,700.00
• Hamakua Drive Emergency Repair	1,100,000.00
• Hart Street WWPS Alternative	23,053,426.48
• Hart Street WWPS Force Main Replacement	20,255,500.00
• Honouliuli WWTP Centralized Odor Control Modification	218,450.93
• Honouliuli WWTP Expansion Phase I, Part A	19,285,608.97
• Honouliuli WWTP Solids Handling Facility Interim Modifications	1,891,810.46
• Kahaluu Housing WWPS and Force Main	2,804,935.39
• Kahuanani Street Sewer Replacement (SMPR No. 85)	1,731,198.25
• Kainehe Street, Hamakua Drive, and Keolu Drive Reconstruction Sewer	25,913,108.89
• Kalaheo Avenue Reconstructed Sewer (Phase 1)	18,346,919.68
• Kalaheo Avenue Reconstructed Sewer (Phase 1, Emergency Work)	17,423,934.00
• Kamehameha Highway Trunk Sewer Reconstruction, Mililani	809,987.81
• Kaneohe Bay Sewers ID No. 275	4,049,675.43
• Kaneohe/Kamehameha Highway Reconstructed Sewer	1,148,800.00
• Kaneohe Wastewater PTF Demolition Plan, Phase 1	745,650.00
• Kapiolani Boulevard Sewer Emergency Repair	1,768,625.96
• Kiwila Street/10 th Avenue Reconstructed Sewer SMPR (SMPR 11)	217,220.00
• Laie Wastewater Collection System Expansion Phase I	7,067,951.00
• Magazine Street Sewer Line Replacement Rehabilitation (SMPR 3)	924,300.00
• Miscellaneous WWTP & WWPS Projects – Kamehameha Highway WWPS: Replace Concrete Cylinder Pipe	1,953,300.00
• Niu Valley WWPS Force Main Emergency Repair	700,000.00
• Pacific Palisades WWPS Access Road Emergency Repair	372,352.44

• Public Baths WWPS Modification	1,882,791.00
• Sand Island Parkway Wastewater Pump Station Modification	994,174.00
• Sand Island WWTP UV Disinfection Facility and Effluent Pump Station	80,762,209.00
• Sand Island WWTP Modification Unit I, Phase 2A	92,974,880.21
• Sand Island WWTP Refurbish Gravity Thickener	608,843.00
• Waianae WWTP Remove Concrete Platform Chlorine Contact Tank, Phase 1	68,891.85
• Waianae WWTP Reroute Gravity Sewer	172,041.11
• Waiomao Stream Sewer Replacement Rehabilitation (SMPR No. 24)	<u>339,090.00</u>
Total	<u>\$351,313,521.76</u>